

5 ABSTRACT

White LED and method for fabricating the same, the white LED including a first light emission part of III-V family compound semiconductor on the substrate having an active layer, a second light emission part of II-VI family compound semiconductor on the first light emission part having an active layer, and electrodes in regions of the substrate, and the first and second light emission parts, thereby providing the white LED having a long lifetime, and implementing a wavelength band of a white or a variety of visible lights by growing the III-V family compound semiconductor with a 635 ~ 780nm wavelength range and the II-VI family compound semiconductor with a 450 ~ 550nm wavelength range, with lattices of the two semiconductor matched.